ANT1m ...80
ANT2m ...80
ANT3m ...80

ANT1m ...16
ANT2m ...16
ANT3m ...16

ANT1m ...24
ANT2m ...24
ANT3m ...24

ANT1m ...32
ANT2m ...32
ANT3m ...32

ANT1m ...40
ANT2m ...40
ANT3m ...40

ANT1m ...47
ANT2m ...48
ANT3m ...48

ANT1m ...55
ANT2m ...56
ANT3m ...56

ANT1m ...63
ANT2m ...64
ANT3m ...64

ANT1m ...71
ANT2m ...72
ANT3m ...72

ANT1m ...79
ANT2m ...80
ANT3m ...80

ANT1m ...87
ANT2m ...88
ANT3m ...88

ANT1m TCAAGAAGTTGTCTA ...89
ANT2m TCAAGAAGTTGTCTA ...89
ANT3m TCAAGAAGTTGATCTA ...89

Figure 1

```
NT1p  MGLHAWSFLKDFLAGAVAAAVSKTAVAPIERVKLLLQVQHASKQISAEKQ
NT2p  MTDAAVSFAKDFLAGGVAAAISKTAVAPIERVKLLLQVQHASKQISAEKQ  50
NT3p  MTECAIISFAKDFLAGGIAAAISKTAVAPIERVKLLLQVQHASKQIIADKQ  50
                                                           50

NT1p  YKGIIDCVVRIPKEQGFLSFWRGNLANVIRYFPTQAINFAFKDKYKQLFL
NT2p  YKGIIDCVVRIPKEQGVLSFWRGNLANVIRYFPTQAINFAFKDKYKQLFL  100
NT3p  YKGIVDCIVRIPKEQGVLSFWRGNLANVIRYFPTQAINFAFKDKYKQIFL  100
                                                           100

NT1p  GGVDRHKQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGRR-A
NT2p  GGVDKFTQFWLYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGRR-A  149
NT3p  GGVDKHIQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKAGA  150
                                                           150

NT1p  QREFRGLGDCIIKTFKSDGLRGLYQGFNVSVQGIIIYRAAYFGVVDTAKG
NT2p  EREFRGLGDCIGKIYKSDGIKGLYQGFNVSVQGIIIYRAAYFGVVDTAKG  199
NT3p  EREFRGLGDCLVKIFKSDGIRGLYQGFSVSVQGIIIYRAAYFGVVDTAKG  200
                                                           200

NT1p  MLPDPKNVHIFVSWMIACSVTAVAGLISYPFDTVRRRMMQSGRKGADIM
NT2p  MLPDPKNTHIVIISWMIAQTVTAVAGLISYPFDTVRRRMMQSGRKGADIM  249
NT3p  MLPDPKNTHIVVSWMIAQTVTAVAGVISYPFDTVRRRMMQSGRKGIDIM  250
                                                           250

NT1p  YTGTVDCWRKIARDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYV
NT2p  YTGTIDCWRKIARDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYV.  298
NT3p  YTGTVDCWRKIIRDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKVI.  299
                                                           299
```

Figure 2

Figure 3

Figure 4

MW (kDa)

no induction

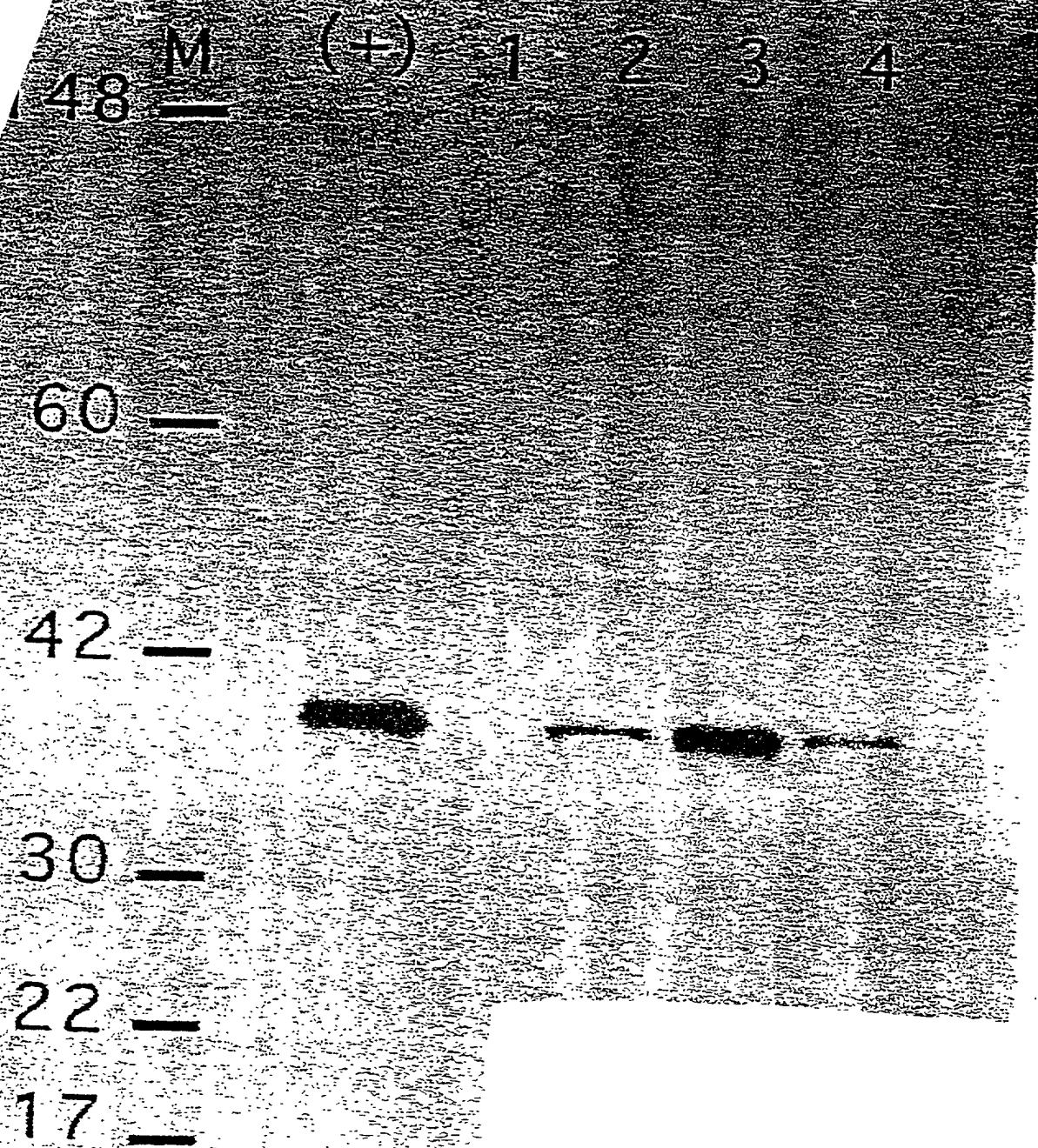arabinose induction

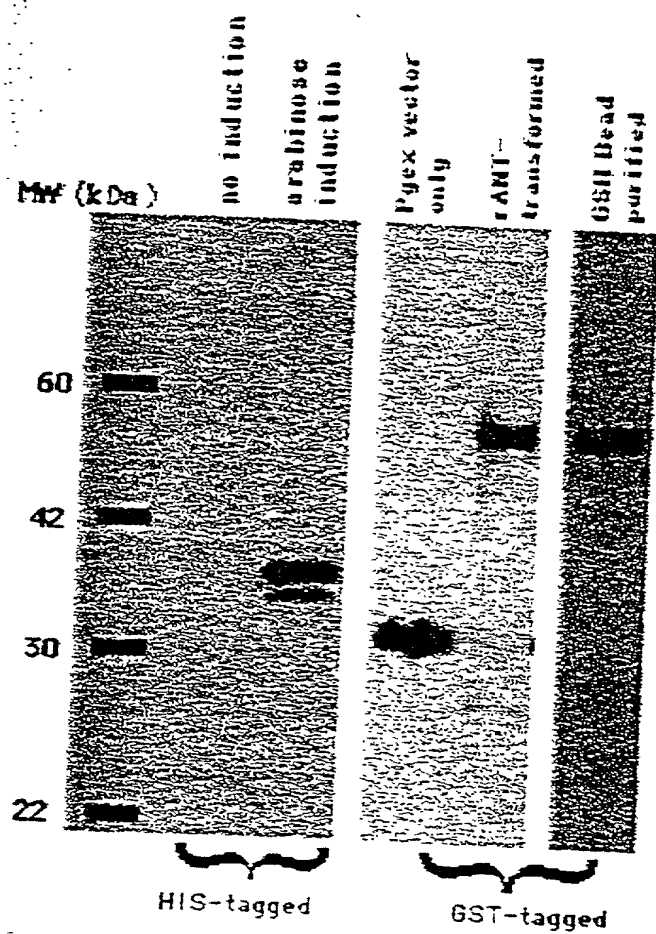Pyex vector only

rANT-transformed

GSH Bead purified

60

42

30

22

HIS-tagged   GST-tagged
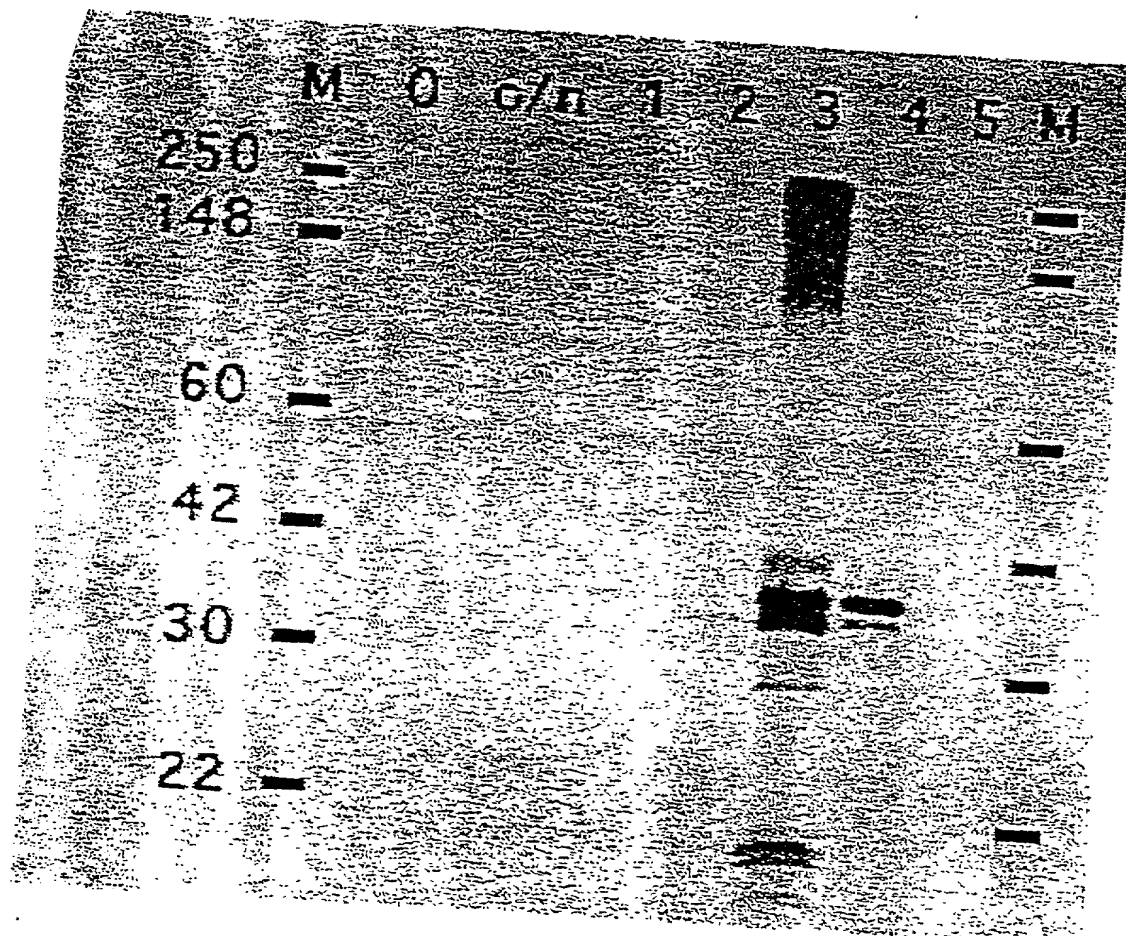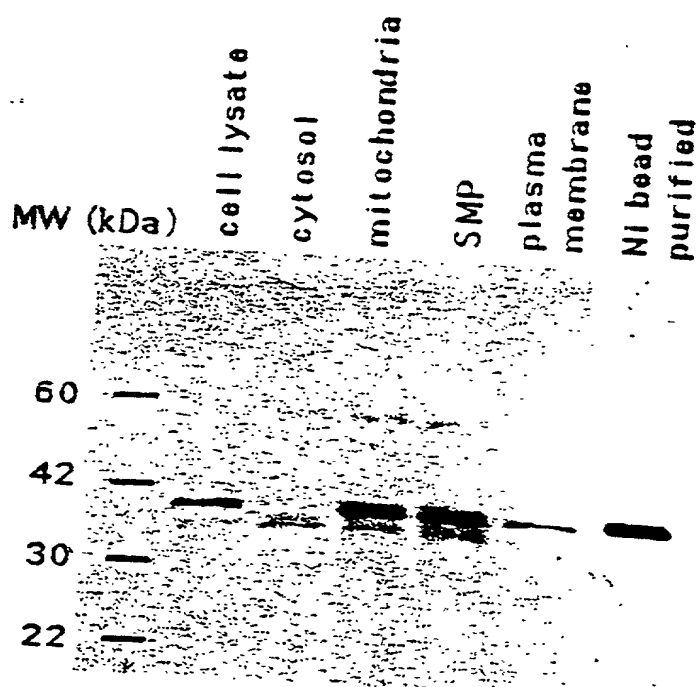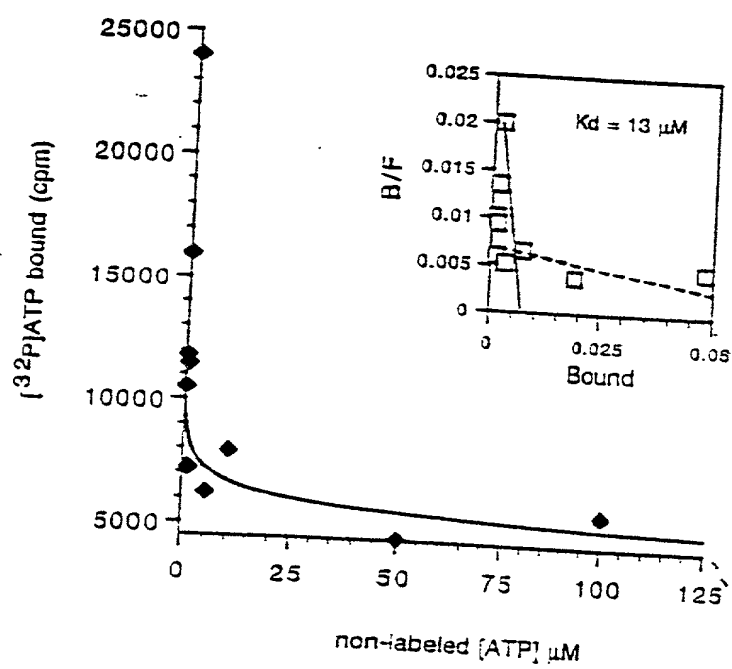
Figure 5

Figure 6

Figure 7

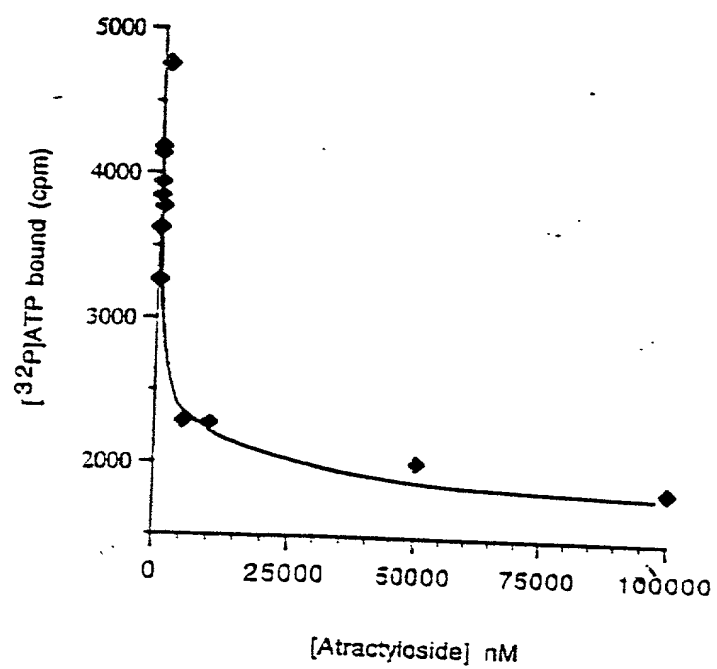**Figure 8**
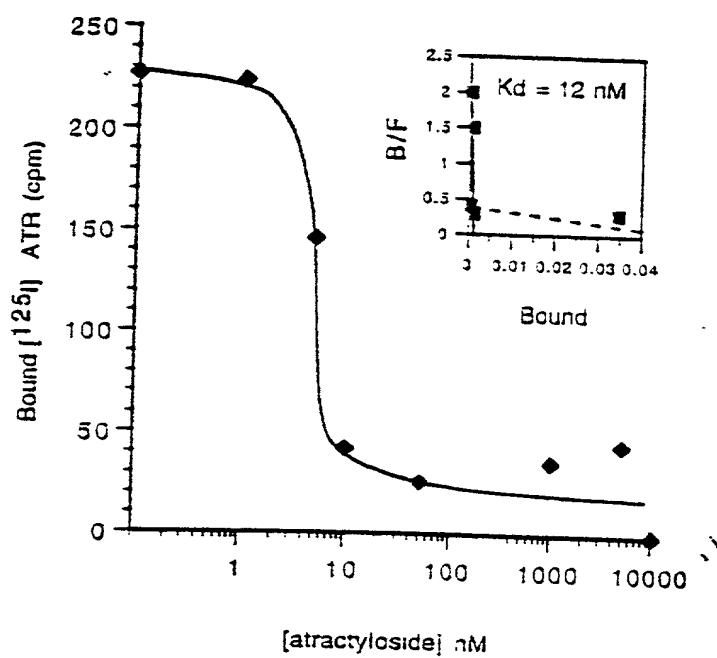
Figure 9

Figure 10

Figure 11

Figure 12

[cpd **24**] nM

Figure 13

15000

12500

10000

7500

CPM bound
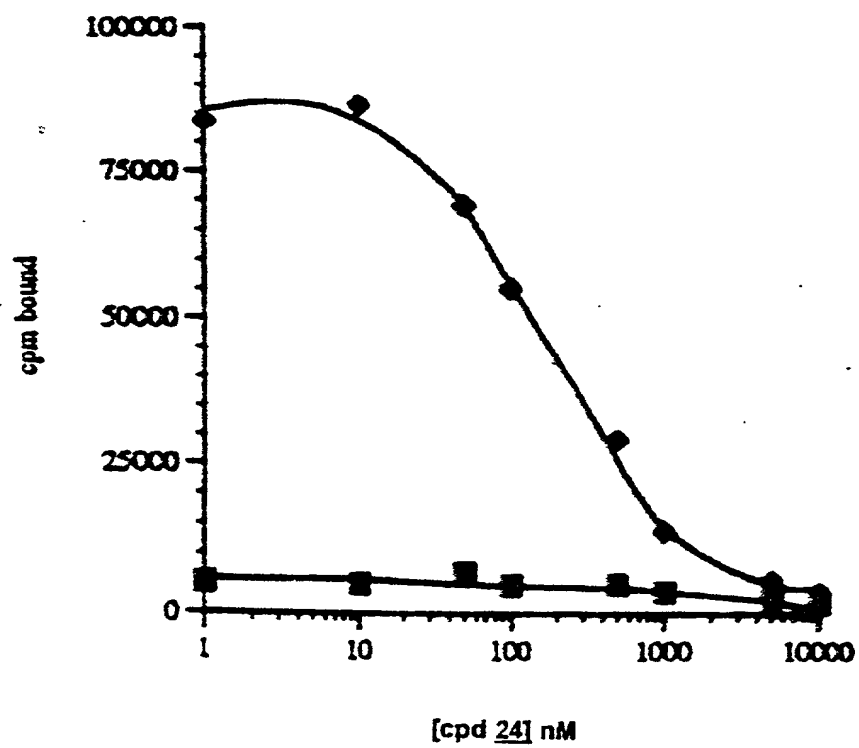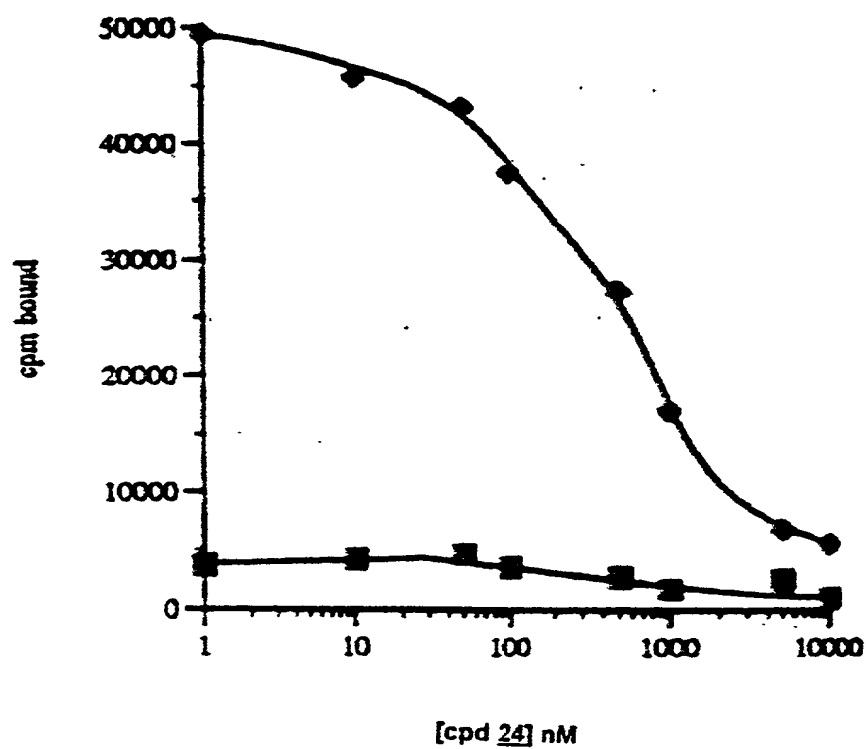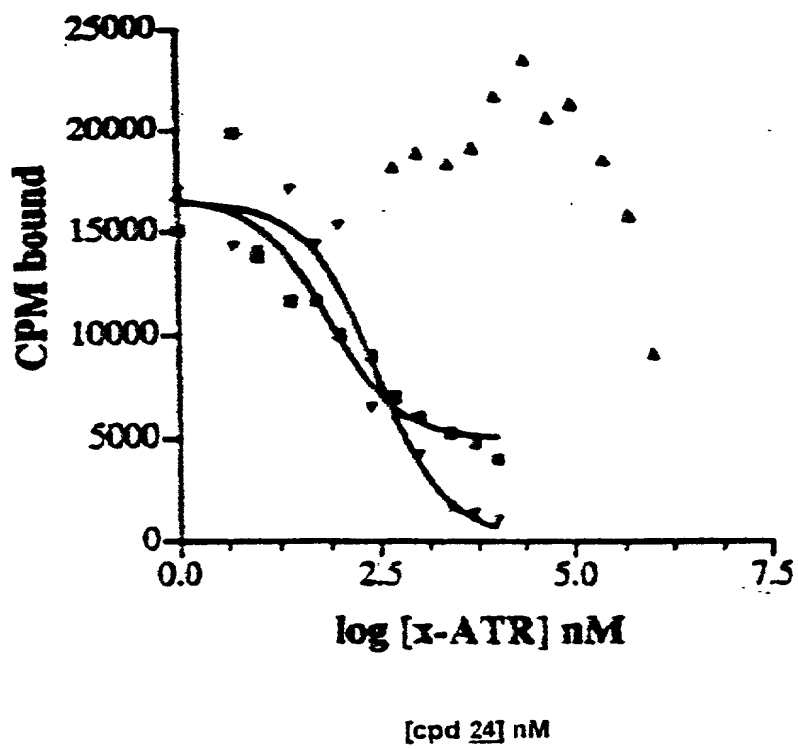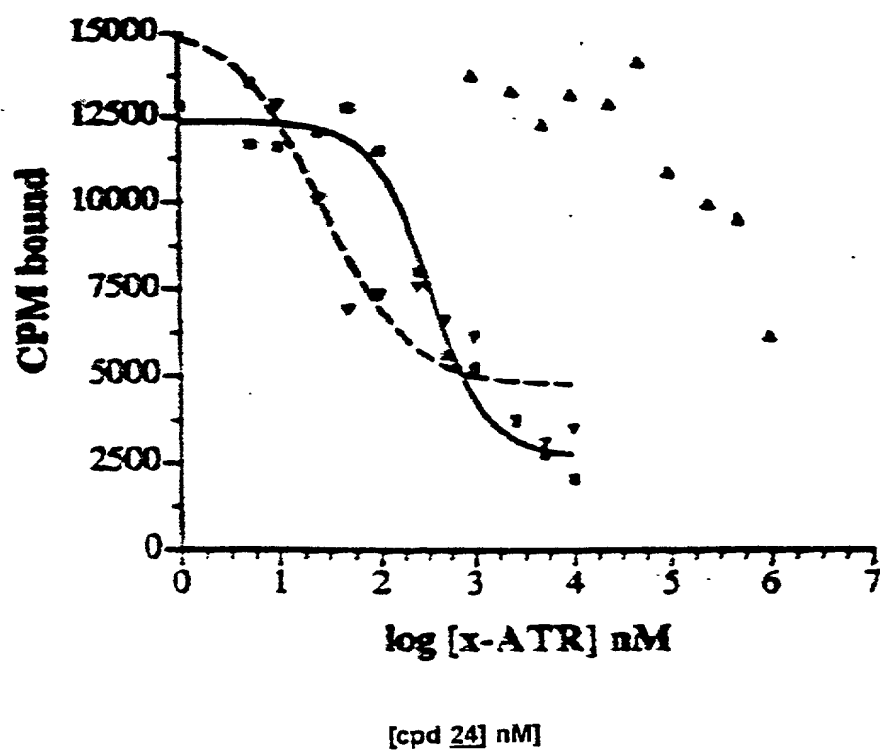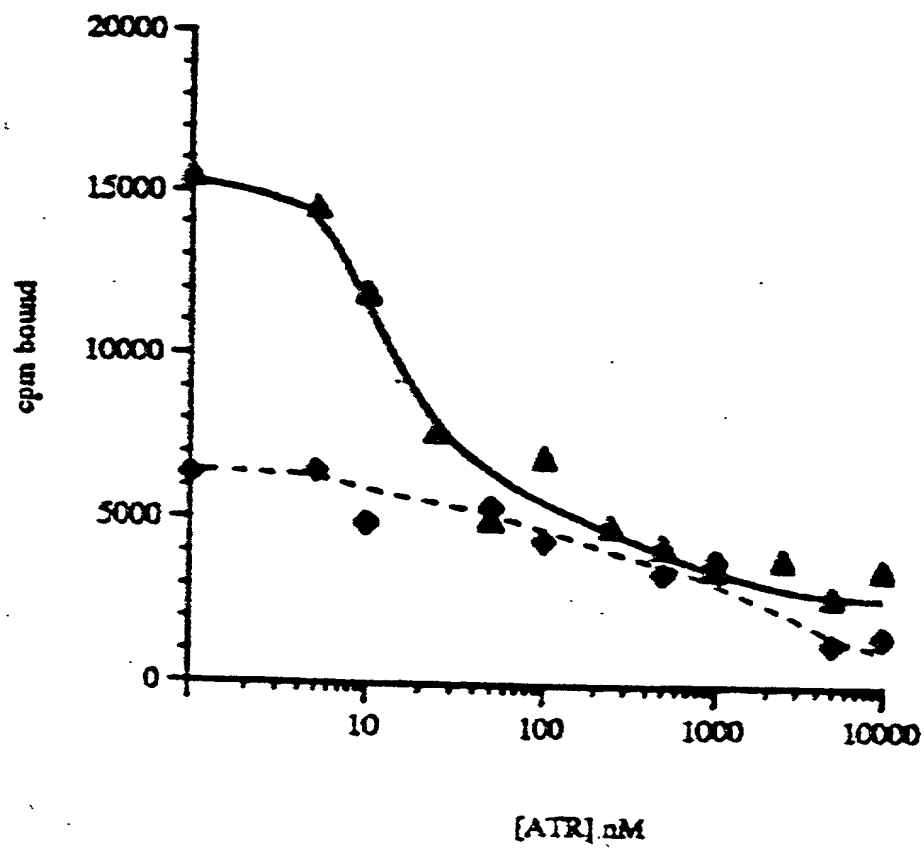
5000

2500

0

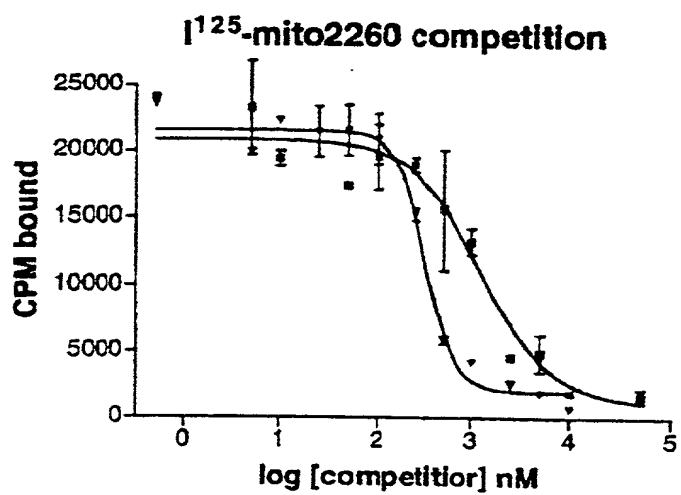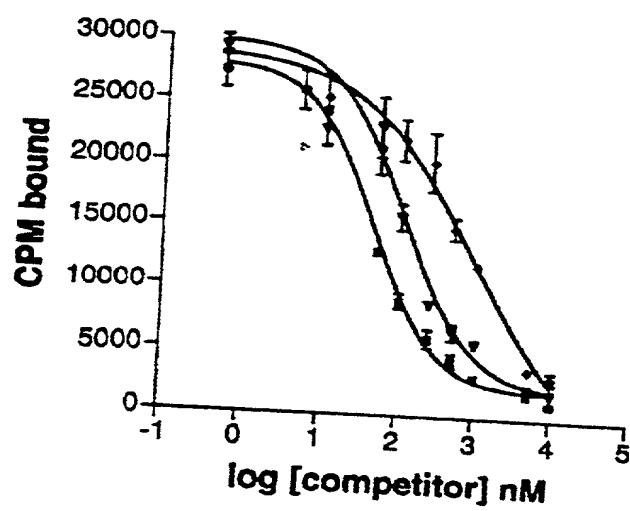0   1   2   3   4   5   6   7

log [x-ATR] nM

[cpd 24] nM]

Figure 14

Figure 15

Figure 16

Figure 17

Figure 18

Figure 19